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Bonin

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(54) **ROLLER-TYPE ELECTRIC MOTOR**

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(58) **Field of Search** **310/82, 80, 156, 310/49 R, 266, 267, 40.5, 81**

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(57) **ABSTRACT**

A roller-type electric motor includes a housing having a hollow interior and an inner wall. A plurality of stator poles each of predetermined magnetic polarity are positioned at the inner wall of the housing, and a roller having an outer surface is positioned for rolling movement within said hollow interior of the housing. A plurality of roller poles each of predetermined magnetic polarity are positioned on the outer surface of the roller so that a first one of the roller poles has a magnetic polarity opposite the magnetic polarity of a first one of the stator poles so that the first roller pole is drawn through magnetic action into contact with the first stator pole. A control device reverses the magnetic polarity of the first stator pole when the first roller pole contacts it to repel the first roller pole through magnetic action while simultaneously predetermined roller poles adjacent to the first roller pole are magnetically drawn towards predetermined stator poles adjacent to the first stator pole to impart rolling movement to the roller within the housing.

1 Claim, 5 Drawing Sheets

